

**Riverview Psychiatric Center
Kennebec County
Augusta, Maine
A-847-71-A-M**

**Departmental
Findings of Fact and Order
Air Emission License**

After review of the air emissions license amendment application, staff investigation reports and other documents in the applicant's file in the Bureau of Air Quality, pursuant to 38 M.R.S.A., Section 344 and Section 590, the Department finds the following facts:

I. REGISTRATION

A. Introduction

1. Riverview Psychiatric Center (RPC) of Augusta, Maine was issued an Air Emission License (A-23-71-G-A) permitting the operation of emission sources associated with their mental health facility under the name of Augusta Mental Health Institute (AMHI) on May 28, 2002.
2. RPC has requested a minor revision in order to license the equipment associated with the new psychiatric facility separately from the rest of the AMHI campus.

B. Emission Equipment

RPC is licensed to operate the following equipment:

Fuel Burning Equipment

<u>Equipment</u>	<u>Maximum Capacity (MMBtu/hr)</u>	<u>Maximum Firing Rate (gal/hr)</u>	<u>Fuel Type, % sulfur</u>	<u>Stack #</u>
Boiler #1	12.25	89.5	diesel fuel, 0.05% and natural gas	1
Boiler #2	12.25	89.5	diesel fuel, 0.05% and natural gas	1
Boiler #3	1.23	9.0	diesel fuel, 0.05% and natural gas	1
Generator #1	14.1	103.0	diesel fuel, 0.05%	2

C. Revision Description

The equipment listed above was previously licensed by AMHI on Air Emission License A-23-71-G-A. Since that time, the Department has discerned that the

equipment at the RPC facility will be operated and maintained by RPC staff and not by the Bureau of General Services (BGS). BGS does operate and maintain the main boiler house on the Augusta East Side Campus (formally AMHI) and they will continue to maintain the air emission license for the main boiler house.

The purpose of this amendment is to separate the equipment located at the RPC from the AMHI license. Since the equipment located at RPC underwent a full BACT analysis in May 2002 and there have been no changes to equipment specifications, a new BACT analysis is not required at this time.

D. Application Classification

This amendment does not increase emissions of any regulated air pollutant and does not include the licensing of new or modified equipment. Therefore, this modification is determined to be a minor revision and has been processed as such.

E. Annual Emission Restrictions

RPC shall be restricted to the following annual emissions, based on a 12 month rolling total:

Total Allowable Annual Emission for the Facility
(used to calculate the annual license fee)

<u>Pollutant</u>	<u>Tons/Year</u>
PM	1.5
PM ₁₀	1.5
SO ₂	0.9
NO _x	14.0
CO	3.5
VOC	0.4

II. AMBIENT AIR QUALITY ANALYSIS

According to the Maine Regulations Chapter 115, the level of air quality analyses required for a minor source shall be determined on a case-by case basis. A down-wash analysis was performed on Stack #1 that confirmed, at a stack height of 43 feet or higher, Maine Ambient Air Quality Standards (MAAQS) will not be violated by this source.

ORDER

The Department hereby grants Air Emission License Minor Revision A-847-71-A-M, subject to the following conditions:

- (1) Employees and authorized representatives of the Department shall be allowed access to the licensee's premises during business hours, or any time during which any emissions units are in operation, and at such other times as the Department deems necessary for the purpose of performing tests, collecting samples, conducting inspections, or examining and copying records relating to emissions.
- (2) The licensee shall acquire a new or amended air emission license prior to commencing construction of a modification, unless specifically provided for in Chapter 115.
- (3) Approval to construct shall become invalid if the source has not commenced construction within eighteen (18) months after receipt of such approval or if construction is discontinued for a period of eighteen (18) months or more. The Department may extend this time period upon a satisfactory showing that an extension is justified, but may condition such extension upon a review of either the control technology analysis or the ambient air quality standards analysis, or both.
- (4) The licensee shall establish and maintain a continuing program of best management practices for suppression of fugitive particulate matter during any period of construction, reconstruction, or operation which may result in fugitive dust, and shall submit a description of the program to the Department upon request.
- (5) The licensee shall pay the annual air emission license fee to the Department, calculated pursuant to Title 38 M.R.S.A. § 353.
- (6) The license does not convey any property rights of any sort, or any exclusive privilege.
- (7) The licensee shall maintain and operate all emission units and air pollution systems required by the air emission license in a manner consistent with good air pollution control practice for minimizing emissions.
- (8) The licensee shall maintain sufficient records to accurately document compliance with emission standards and license conditions and shall maintain such records for a minimum of six (6) years. The records shall be submitted to the Department upon written request.

- (9) The licensee shall comply with all terms and conditions of the air emission license. The filing of an appeal by the licensee, the notification of planned changes or anticipated noncompliance by the licensee, or the filing of an application by the licensee for a renewal of a license or amendment shall not stay any condition of the license.
- (10) The licensee may not use as a defense in an enforcement action that the disruption, cessation, or reduction of licensed operations would have been necessary in order to maintain compliance with the conditions of the air emission license.
- (11) In accordance with the Department's air emission compliance test protocol and 40 CFR Part 60 or other method approved or required by the Department, the licensee shall:
 - (i) perform stack testing to demonstrate compliance with the applicable emission standards under circumstances representative of the facility's normal process and operating conditions:
 - a. within sixty (60) calendar days of receipt of a notification to test from the Department or EPA, if visible emissions, equipment operating parameters, staff inspection, air monitoring or other cause indicate to the Department that equipment may be operating out of compliance with emission standards or license conditions; or
 - b. pursuant to any other requirement of this license to perform stack testing.
 - (ii) install or make provisions to install test ports that meet the criteria of 40 CFR Part 60, Appendix A, and test platforms, if necessary, and other accommodations necessary to allow emission testing; and
 - (iii) submit a written report to the Department within thirty (30) days from date of test completion.
- (12) If the results of a stack test performed under circumstances representative of the facility's normal process and operating conditions indicate emissions in excess of the applicable standards, then:
 - (i) within thirty (30) days following receipt of such test results, the licensee shall re-test the non-complying emission source under circumstances representative of the facility's normal process and operating conditions and in accordance with the Department's air emission compliance test protocol and 40 CFR Part 60 or other method approved or required by the Department; and
 - (ii) the days of violation shall be presumed to include the date of stack test and each and every day of operation thereafter until compliance is demonstrated under normal and representative process and operating conditions, except to the extent that the facility can prove to the

satisfaction of the Department that there were intervening days during which no violation occurred or that the violation was not continuing in nature; and

- (iii) the licensee may, upon the approval of the Department following the successful demonstration of compliance at alternative load conditions, operate under such alternative load conditions on an interim basis prior to a demonstration of compliance under normal and representative process and operating conditions.
- (13) Notwithstanding any other provisions in the State Implementation Plan approved by the EPA or Section 114(a) of the CAA, any credible evidence may be used for the purpose of establishing whether a person has violated or is in violation of any statute, regulation, or Part 70 license requirement.
 - (14) The licensee shall maintain records of malfunctions, failures, downtime, and any other similar change in operation of air pollution control systems or the emissions unit itself that would affect emission and that is not consistent with the terms and conditions of the air emission license. The licensee shall notify the Department within two (2) days or the next state working day, whichever is later, of such occasions where such changes result in an increase of emissions. The licensee shall report all excess emissions in the units of the applicable emission limitation.
 - (15) Upon written request from the Department, the licensee shall establish and maintain such records, make such reports, install, use and maintain such monitoring equipment, sample such emissions (in accordance with such methods, at such locations, at such intervals, and in such a manner as the Department shall prescribe), and provide other information as the Department may reasonably require to determine the licensee's compliance status.
 - (16) Boilers #1, #2 and #3
 - A. Total fuel use from Boilers #1, #2 and #3 shall not exceed 200,000 gal/yr of diesel fuel (or equivalent natural gas) on a 12-month rolling total basis, with a maximum sulfur content not to exceed 0.05% by weight. Compliance shall be based on certification from the supplier showing the quantity of fuel delivered and the percent sulfur of the fuel. Fuel records shall be maintained on a monthly basis, in addition to the 12-month rolling total.
 - B. RPC shall exhaust the emissions of Boilers #1, #2 and #3 through a stack that is no shorter than 43 feet above ground level.

C. Emissions shall not exceed the following:

Equipment		PM	PM₁₀	SO₂	NO_x	CO	VOC
Boiler #1	lb/MMBtu	0.08	-	-	-	-	-
	lb/hr	0.98	0.98	0.61	2.45	0.45	0.02
Boiler #2	lb/MMBtu	0.08	-	-	-	-	-
	lb/hr	0.98	0.98	0.61	2.45	0.45	0.02
Boiler #3	lb/hr	0.10	0.10	0.06	0.25	0.04	0.01

D. Visible emissions from stack #1 shall not exceed 20% opacity on a 6-minute block average when firing diesel fuel.

E. Visible emissions from stack #1 shall not exceed 10% opacity on a 6-minute block average when firing natural gas.

(17) **NSPS Requirements**

Boilers #1 and #2 are subject to Federal New Source Performance Standards, Subpart Dc. AMHI shall comply with all requirements of 40 CFR Part 60, Subpart Dc including, but not limited to, the following:

- A. RPC shall submit notification to EPA and the Department of the date of construction, anticipated start-up, and actual start-up. This notification shall include the design heat input capacity of the boilers and the type of fuel to be combusted.
- B. RPC shall perform and submit to EPA and the Department an initial performance test within 30 days after achieving the maximum production rate at which the facility will be operated but not later than 180 days after the initial start-up of the facility. The performance test shall consist of fuel supplier certification of the sulfur content of the fuel fired in Boilers #4 and #5. The fuel supplier certification must contain the name of the oil supplier and a statement from the oil supplier that the oil complies with ASTM specifications for #2 fuel oil.
- C. RPC shall record and maintain records of the amounts of each fuel combusted during each day.
- D. RPC shall submit to EPA and the Department semi-annual reports. These reports shall include the calendar dates covered in the reporting period and records of fuel supplier certifications. The semi-annual reports are due within 30 days of the end of each 6-month period.

- E. The following address for EPA shall be used for any reports or notifications required to be copied to them:

Compliance Clerk
USEPA Region 1
1 Congress Street
Suite 1100
Boston, MA 02114-2023

(18) Emergency Generator

- A. Generator #1 is an emergency generator, as defined in Chapter 100, and is therefore restricted to 500 hr/yr of operation (based on a 12-month rolling total). An hour meter shall be maintained and operated on Generator #1.
- B. A log documenting the dates, times, and reason of operation for Generator #1 shall be kept.
- C. Generator #1 shall fire diesel fuel with a sulfur limit not to exceed 0.05% by weight. Fuel records, including percent sulfur, shall be maintained.
- D. RPC shall exhaust the emissions of Generator #1 through a stack that is no shorter than 43 feet above ground level.
- E. Emissions shall not exceed the following:

Equipment		PM	PM ₁₀	SO ₂	NO _x	CO	VOC
Generator #1	lb/MMBtu	0.12	-	-	-	-	-
	lb/hr	1.69	1.69	0.71	45.12	11.99	1.27

- F. Visible emissions from the Emergency Generator shall not exceed 20% opacity on a 6-minute block average, except for no more than (2) six-minute block averages in a continuous 3-hour period.

(19) Stockpiles and Roadways

Potential sources of fugitive PM emissions including material stockpiles and roadways shall be controlled by wetting with water, with calcium chloride, or other methods as approved by the Bureau of Air Quality to prevent visible emissions in excess of 10% opacity, on a 3-minute block average basis.

- (20) RPC shall notify the Department within 48 hours and submit a report to the Department on a quarterly basis if a malfunction or breakdown in any component causes a violation of any emission standard (Title 38 MRSA §605-C).

- (21) The annual air emission license fee shall be paid within 30 days of December 31st of each year. Pursuant to 38 M.R.S.A. Section 353-A, failure to pay this annual fee in the stated timeframe is sufficient grounds for revocation of the license under 38 M.R.S.A. Section 341-D, Subsection 3.
- (22) The term of this Order shall be for five (5) years from the signature below.

DONE AND DATED IN AUGUSTA, MAINE THIS DAY OF 2003.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: _____
MARTHA G. KIRKPATRICK, COMMISSIONER

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application: 11/5/02

Date of application acceptance: 11/8/02

Date filed with the Board of Environmental Protection: _____

This Order prepared by Lynn Ross, Bureau of Air Quality.